

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	551	(virtual adj (channel or path)) same (physical adj (channel or path))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:22
L8	22	(virtual adj (interface)) same (physical adj (interface or id)) same (map\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:44
L9	70	(virtual adj (interface or id)) same (physical adj (link or interface or id)) same (map\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:46
L10	16	((virtual adj (interface)) same (physical adj (interface)) same (map\$5)) and (router)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:58
L11	94	(virtual adj (link or interface or id)) same (physical adj (link or interface or id)) same (map\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 12:08
L12	46	VPRN	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 12:08
L13	3	VPRN and (@rlad<"20010125" or @ad<"20010125")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 12:09
L14	33	((virtual adj (interface)) same (physical adj (interface))) and (router) and (@rlad<"20010125" or @ad<"20010125")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 12:13

EAST Search History

L15	26	(virtual adj router).ti. and (@rlad<"20010125" or @ad<"20010125")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 12:17
L16	15	(virtual adj rout\$3).ti. and (@rlad<"20010125" or @ad<"20010125") not L15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 12:19
L17	5	(emulated adj router) and (@rlad<"20010125" or @ad<"20010125")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 12:20
L18	49	(logical adj router) and (@rlad<"20010125" or @ad<"20010125")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 12:20

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1	((virtual adj router adj subsystem) and vprn and (generic adj interface adj identifier)).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/31 11:23
L3	6	((virtual adj (interface)) same (physical adj (interface)) same (map\$5)) and (router) and (@rlad<"20010125" or @ad<"20010125"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:23
L4	5	(virtual and router and VPRN).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:41
L5	1215	(virtual and router).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:41
L6	144	(virtual and router and physical and interface).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:42
L7	50	(virtual and router and physical and interface and link\$3).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/31 11:43



physical interface "virtual router"

- 2000

Search

Adv
Sch
Sch☒ Search only in Engineering, Computer Science, and Mathematics.☐ Search in all subject areas.**Scholar** All articles Recent articles Results 1 - 68 of 68 for physical interface "virtual router". (0.35 second)**All Results**[A Campbell](#)[B Cole](#)[M Bakke](#)[A Lazar](#)[J Vicente](#)**Method and apparatus for virtual switching - group of 2 »**

K Hardwick, GC Stone - US Patent 5,550,816, 1996 - Google Patents

... PEV Messages n **Virtual Router** System Classes/Processes 'Other Process IJ ... Media ForwardingEventHandler C6) Update the **Physical** Port Info Structure —Event FIG. ...Cited by 77 - [Related Articles](#) - [Web Search](#)**Inter-LAN connecting device with combination of routing and switching functions - group of 3 »**

H Kinoshita - US Patent 5,802,047, 1998 - Google Patents

... host Preferably, the logic **interface** includes means for storing ... upperprotocol. the input-output packets and the **physical** Ethernet ports by ...Cited by 41 - [Related Articles](#) - [Web Search](#)**Standby router protocol - group of 2 »**

AJ Li, BA Cole - US Patent 5,473,599, 1995 - Google Patents

... An active router inthe group ofrouters emulates the **virtual router**. ... FDDI INTERFACE .24 ... not often update itsARPTable entry (which lists **physical** addresses of ...Cited by 216 - [Related Articles](#) - [Web Search](#)**The Genesis Kernel: a virtual network operating system for spawningnetwork architectures - group of 10 »**AT Campbell, HG De Meer, ME Kounavis, K Miki, J ... - Open Architectures and Network Programming Proceedings, 1999 ..., 1999 - [ieeexplore.ieee.org](#)... a set of open programmable **virtual router** nodes called ... management objects to the **physical** network infrastructure. ... to support the binding **interface** base and ...Cited by 37 - [Related Articles](#) - [Web Search](#)**A simple methodology for constructing extensible and high-fidelityTCP/IP network simulators - group of 10 »**SY Wang, HT Kung - INFOCOM'99. Eighteenth Annual Joint Conference of the IEEE ..., 1999 - [ieeexplore.ieee.org](#)... does not have a real **physical** network attached ... The standard UNIX system call **interface**(API) is ... opaque network cloud simulation model **Virtual Router 1 Virtual ...**Cited by 42 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Method and apparatus for accelerated packet forwarding - group of 2 »**

MA Bakke, EJ Fiore - US Patent 5,566,170, 1996 - Google Patents

... The basis forthis limitationis the overhead incurred to **interface** the different processors beyond a limited number of task divisions. ...Cited by 107 - [Related Articles](#) - [Web Search](#)**Providing roaming capability for mobile computers in a standard network - group of 3 »**

AB Coleman, LT Truong, J Grau Jr - US Patent 6,006,090, 1999 - Google Patents

... In NetWare, an Open Datalink **Interface** protocol (ODI ... protocols, together with the underlying **physical** layer, are ... The **virtual router** sends packets in the same ...
 Cited by 13 - [Related Articles](#) - [Web Search](#)

Virtual active networks—Safe and flexible environments for customer-managed services - group of 9 »

M Brunner, R Stadler - 10th IFIP/IEEE Int. Workshop Distributed Systems, Operations ..., 1999 - Springer
 ... with identifier in _portid to the **physical** port identified by ... The local VAN management **interface** includes functions ... by configuring a **virtual router** inside the ...
 Cited by 13 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

A fast, simple router for the Data-Intensive Architecture (DIVA) system - group of 5 »

CW Kang, J Draper - Circuits and Systems, 2000. Proceedings of the 43rd IEEE ..., 2000 - ieeexplore.ieee.org
 ... are time-multiplexed onto each **physical** channel. Each **virtual router** contains controlling logic, consisting of an ... Figure 2 shows the internal **interface** for one ...
 Cited by 5 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

A Binding Architecture for Multimedia Networks - group of 6 »

AA Lazar, SK Bhonsle, KS Lim - Journal of Parallel and Distributed Computing, 1995 - comet.ctr.columbia.edu
 ... and Virtual Link object representing the corresponding **physical** switches and ... supporting, for example, the Q.93b signalling **interface** can similarly be ... **Router** ...
 Cited by 74 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Multiservice networking using a component-based switch and routerarchitecture

D McDysan, T Lundberg, N Bjorkman, A Latour-Henner - High Performance Switching and Routing, 2000: ATM 2000. ..., 2000 - ieeexplore.ieee.org
 ... can be used to logically partition a **physical** port amongst ... lookups and implements queuing on an **interface** to trunk ... has his or her own **virtual router** that de ...
 Cited by 2 - [Related Articles](#) - [Web Search](#)

[book] Mpls and Vpn Architectures - group of 4 »

I Pepelnjak, J Guichard - 2000 - books.google.com
 ... Performing NAT in a **Virtual Router** Environment 199 NAT Refresher 202 Configuring NAT on ... MPLS Data Plane Troubleshooting 437 Monitoring **Interface**-Level CEF 437 ...
 Cited by 35 - [Related Articles](#) - [Web Search](#) - [Library Search](#)

IP services creation in a programmable router

JP Redlich, M Suzuki, A Kolarov, S Weinstein - Internet Technologies and Services, 1999. Proceedings. First ..., 1999 - ieeexplore.ieee.org
 ... programmers to a standard resources **interface** such as ... and characteristics, on the same **physical** platform. ... services into which the **virtual router** slices are ...
 Cited by 1 - [Related Articles](#) - [Web Search](#)

Internetworking based on cell switch router-architecture andprotocol overview - group of 2 »

Y Katsube, K Nagami, S Matsuzawa, H Esaki - Proceedings of the IEEE, 1997 - ieeexplore.ieee.org
 ... layer processing capability of the **virtual router** and are ... UNI) [14] and private network node **interface** (PNNI) [5 ... on a point-to-point (p-p) **physical** or logical ...

[Cited by 14](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Multiprotocol over wireless ATM

Z Ruifeng, W Xingyao, T Zhenhui - Communication Technology Proceedings, 1998. ICCT'98. 1998 ..., 1998 - [ieeexplore.ieee.org](#)

... same time, the concept of **virtual router** is introduced ... layer after recovering from **physical** transmission errors, implementing the **interface** between MAC ...

[Related Articles](#) - [Web Search](#)

INTEROPERABILITY IN HETEROGENEOUS ENVIRONMENT:

MULTIPTROTOCOL OVER ATM (MPOA) - group of 3 »

DIKO Detken - INTEROPERABLE COMMUNICATION NETWORKS, 1998 - [detken.net](#)

... MPOA works as a **virtual router** on the OSI layer 3. A further technology arises on the market: MPLS. ... AAL 5 MAC UNI-Signal. UNI **Physical** Layer Driver **Interface** ...

[Related Articles](#) - [Web Search](#) - [BL Direct](#)

[book] A Control Architecture for Lightweight Virtual Networks - group of 3 »

S Rooney - 2000 - Springer

... to be supported over the same **physical** switch, [10 ... The VBR implements a **virtual router** for each VPN ... are configured such that they have an **interface** address in ...

[Related Articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)

APAP I/O programmable router - group of 2 »

CA Collins, MC Dapp, JW Dieffenderfer, DC ... - US Patent 5,963,745, 1999 - Google Patents

Page 1. United States Patent Collins et al. US005963745A [il] Patent Number: [45] Date of Patent: 5,963,745 Oct. 5, 1999 [54] APAP I/O PROGRAMMABLE ROUTER ...

[Cited by 13](#) - [Related Articles](#) - [Web Search](#)

Spawning networks - group of 12 »

AT Campbell, ME Kounavis, DA Villela, JB Vicente, ... - Network, IEEE, 1999 - [ieeexplore.ieee.org](#)

... a set of open programmable **virtual router** nodes called ... A binding **interface** base [8] supports a set of ... management objects to the **physical** network infrastructure ...

[Cited by 48](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

The Impact of Active Networking Technology on Service Management in a Telecom Environment - group of 4 »

M Brunner, R Stadler - IFIP/IEEE International Symposium on Integrated Network ..., 1999 - [tic.udc.es](#)

... **Physical** Active Network ... performed by the provider through the service **interface** in Figure 3 ... network node is achieved by configuring a **virtual router** inside the ...

[Cited by 12](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Origin System Design Methodology and Experience: 1M-gate ASICs and Beyond - group of 15 »

AT Eiriksson, J Keen, A Silbey, S Venkataraman, M ... - Proc. COMPCON'97, 1997 - [doi.ieeeecs.org](#)

... **virtual router** for routing data between the nodes. ... 0 Interpretive simulator **interface** for running tests. e Chip designs which facilitate **physical** design (ie. ...

[Cited by 10](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

MPLS control architecture in a multipurpose switch

O Suihkonen - 2000 - [tml.hut.fi](#)

... VR **Virtual Router** WDM Wavelength Division Multiplexing Page 10. 1 ... **Interface** In hardware

terminology, an **interface** means the **physical** and logical ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

[HIP—a protocol for hierarchical multicast routing - group of 9 »](#)

C Shields, JJ Garcia-Luna-Aceves - Computer Communications, 2000 - Elsevier

... 4. Interior OCBT **virtual router** operation ... the arrival of a join message on the external **interface** of a ... internal router that is designated as the **physical** CP for ...

[Cited by 20](#) - [Related Articles](#) - [Web Search](#)

[Managing Spawned Virtual Networks - group of 7 »](#)

AT Campbell, J Vicente, DA Villela - Proceedings of the First International Working Conference on ..., 1999 - Springer

... through a set of open programmable **virtual router** nodes called ... The metabus and binding

interface base also support a ... to **physical** link or (grand) parent port ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[The next-generation Internet: unsafe at any speed? - group of 6 »](#)

KP Birman - Computer, 2000 - [ieeexplore.ieee.org](#)

... while a VPN acts at the network **interface**. ... the proposed technology, portions of the **physical** Inter- net ... it resides entirely within a **virtual router** defined by ...

[Cited by 8](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Evolution of multiprotocol label switching - group of 10 »](#)

A Viswanathan, N Feldman, Z Wang, R Callon - Communications Magazine, IEEE, 1998 - [ieeexplore.ieee.org](#)

... support for a "virtual router." A **virtual router** can be ... ingress **interface** module to an egress **interface** mod- ule ... to the number of links (**physical** or virtual ...

[Cited by 144](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Implementation and testing of a multi-protocol over ATM \(MPOA\) client](#)

H Vatiainen, J Harju, H Koivisto, S Saaristo, J ... - Communications, 2000. ICC 2000. 2000 IEEE International ..., 2000 - [ieeexplore.ieee.org](#)

... Even if the **physical** topology is hidden from the network layer, it still ... 3. **Virtual router** ... J. 3. i i Socket **interface** INET sockets ATM sockets 1 (c Network ...

[Web Search](#) - [BL Direct](#)

[ATM protocol on LAN](#)

W Renyong, D Zhenghua - Intelligent Processing Systems, 1997. ICIPS'97. 1997 IEEE ..., 1997 - [ieeexplore.ieee.org](#)

... tached devices, as a 1/0 **interface** module, and ... between stations belonging to different 'physical LAY seg ... to the same switch over the **virtual router** in switch. ...

[Web Search](#)

[Provision of Signalling for Programmable Services - group of 3 »](#)

M Banfield, S Simpson, D Hutchison - Proceedings of the IFIP TC6 WG6. 7 Sixth International ..., 2000 - [comp.lancs.ac.uk](#)

... the SML viewpoint, each subnetwork is a **virtual router**, and just as with the **physical** routers, the ... are equivalent to the "U" **interface** reference point ...

[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Virtual Wires: Overcoming Pin Limitations in FPGA-based Logic Emulation - group of 4 »](#)

JW Babb - 1993 - lcs.mit.edu

... mation, the **Virtual Router** then statically schedules and routes inter ... connected to **physical** wires according to a ... the ability to directly **interface** with real ...

[Cited by 8](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Analysing and reducing the protocol overheads of MPOA in the intra-**IASG** communication - group of 4 »

WK Lai, JM Chung - Computers and Digital Techniques, IEE Proceedings-, 2000 - [ieeexplore.ieee.org](#)

... The **virtual router** consists of two functions, routing and forwarding ... **physical** layer (Ethernet ... Spare 10 workstations with the FORE ATM **interface** cards communicate ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[doc] Analyzing and reducing the protocol overheads of the MPOA in the intra-Communication

WK Lai, JM Chung - 1999 - nsysu.edu.tw

... The division of the **virtual router** into two function groups ... The FORE **interface** card can support 155 Mbps of ... know there are overheads in the **physical** layer, the ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

Scalable Emulation of IP Networks through Virtualization - group of 5 »

AP Kucheria - 1998 - ittc.ukans.edu

... 129.237.125.41 129.237.125.42 **Virtual Router** 129.237.125.40 ... A reader might question

this design in which a single **physical interface** is carrying the ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

The network paradigm of the 21st century and its key technologies - group of 6 »

A Moridera, K Murano, Y Mochida - Communications Magazine, IEEE, 2000 - [ieeexplore.ieee.org](#)

... This keeps the **physical** network structure simple and makes data forwarding easier. The photonic network concept is shown in Fig. ... **Virtual router** ... Open **interface** ...

[Cited by 12](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Distributed connection-oriented services for switched communications networks - group of 5 »

K Dobbins, TA Grant, DJ Ruffen, L Kane, T Len, P ... - US Patent 5,825,772, 1998 - Google Patents

Page 1. United States Patent Dobbins et al. [54] DISTRIBUTED CONNECTION-ORIENTED SERVICES FOR SWITCHED COMMUNICATIONS NETWORKS [75 ...

[Cited by 132](#) - [Related Articles](#) - [Web Search](#)

A DEMONSTRATION OF THE INTEROPERABILITY OF LEGACY AND IP BASED TELEPHONY AND VOICE MAIL SYSTEMS

JS Alling - 2000 - neoref.ils.unc.edu

... into virtual LANs (vlans) and **physical** connectivity to ... vlan 4 a router **interface**, 172.26.104.129 ... the local network, this **virtual router interface** was configured ...

[View as HTML](#) - [Web Search](#)

Fully scalable parallel processing system having asynchronous SIMD processing - group of 2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,752,067, 1998 - Google Patents

... 27. No. 10A, pp. 5579-5580. Mar. 1985. HP Bakoglu. "Second-Level Shared Cache Implementation For Multiprocessor Computers With A Common Interface For The Second ...
Cited by 6 - [Related Articles](#) - [Web Search](#)

Fully distributed processing memory element - group of 2 »

TN Barker, CA Collins, MC Dapp, JW Dieffenderfer, ... - US Patent 5,963,746, 1999 - Google Patents

... INSTRUCTION STREAMER INSTRUCTION PTR OPERAND REG Ni Page 6.

CONFIGURATION REGISTER

& TIMING CONTROL EXTERNAL MEMORY INTERFACE ADDRESS REGISTERS FIG.1B

D 1N BU ...

Cited by 17 - [Related Articles](#) - [Web Search](#)

Advanced parallel array processor (APAP) - group of 4 »

TN Barker, CA Collins, MC Dapp, JW Dieffenderfer, ... - US Patent 5,590,345, 1996 - Google Patents

... EXTERNAL MEMORY INTERFACE Nr r ... DEBUGGER PERFORMANCE MONITOR & ANALYSIS DIAGNOSTICS

SIMULATOR ASSEMBLER/LINKER & LOADER TEST & INTERFACE MONITOR FIG.19

Page 8. ...

Cited by 38 - [Related Articles](#) - [Web Search](#)

SIMD/MIMD array processor with vector processing - group of 2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,966,528, 1999 - Google Patents

... n Page 6. US Patent Oct. 12, 1999 Sheet 2 of 24 5,966,528 CONFIGURATION REGISTER

& TIMING CONTROL EXTERNAL MEMORY INTERFACE \n LINKS ADDRESS REGISTERS FIG.1 B ...

Cited by 13 - [Related Articles](#) - [Web Search](#)

SIMD/MIMD processing synchronization - group of 3 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 6,094,715, 2000 - Google Patents

... US Patent Jul. 25, 2000 Sheet 2 of 24 6,094,715 CONFIGURATION REGISTER & TIMING

CONTROL EXTERNAL MEMORY INTERFACE CPU LINK 0 LINKS LINKS TIMERS ...

Cited by 16 - [Related Articles](#) - [Web Search](#)

[ps] Internet Routing in a Multi Provider, Multi Path Open Environment - group of 44 »

T Bates, D Karrenberg, P Lothberg, B Stockman, M ... - RIPE-82", March, 1993 - apng.org

... on a host directly connected to the physical GIX. ... RS can be viewed as a virtual router making policy ... routes pointing to the respective GIX interface address G1 ...

Cited by 2 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Method of managing virtual networks using a virtual network identifier - group of 2 »

A Suzuki, M Horiguchi - US Patent 5,892,912, 1999 - Google Patents

... a plurality of separate LANs (virtual LANs) irrespective of physical configuration. ... merely referred to as "switching hub") has an ATM interface for high ...

Cited by 41 - [Related Articles](#) - [Web Search](#)

[book] Services Management in Intelligent Networks: 11th IFIP/IEEE International Workshop on Distributed ...

A Ambler, SB Calo, G Kar - 2000 - books.google.com
 Page 1. Lecture Notes in Computer Science Anthony Ambler Seraphin B. Calo Gautam Kar (Eds.) 1960 Services Management in Intelligent Networks ...
[Cited by 2](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

Partitioning of processing elements in a SIMD/MIMD array processor - group of 2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,878,241, 1999 - Google Patents
 ... EXTERNAL MEMORY INTERFACE F1G.1B Page 6. ... DEBUGGER PERFORMANCE MONITOR & ANALYSIS
 DIAGNOSTICS SIMULATOR ASSEMBLER/LINKER aLOADER TEST & INTERFACE MONITOR ...
[Cited by 14](#) - [Related Articles](#) - [Web Search](#)

[BOOK] TCP/IP Tutorial and Technical Overview - group of 49 »

MW Murhammer... - 1998 - sabanciuniv.edu
 ... 76 2.7.2 UDP Application Programming Interface 78
 2.8.2 TCP Application Programming Interface
[Cited by 25](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Management in telecom environments that are based on active networks - group of 6 »

M Brunner - Journal of High Speed Networks, 2000 - IOS Press
 ... node is achieved by configuring a **virtual router** inside the ... that the resources of a **physical** ATM switch ... polices invocations on a Switchlet **interface**, in order ...
[Cited by 2](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Sherlock: Commercial High Assurance Network Computing - group of 2 »

SP Morgan, SW Neal, MA Hartman, MR Laue - Proceedings of the Third International Workshop on ..., 2000 - Springer
 ... Ethernet media access control and a **physical** layer in ... is that the CPU's PCI-bus **interface** and the ... and the two embedded bridges, a **virtual router**, software to ...
[Web Search](#) - [BL Direct](#)

Network Fault Tolerance System

J Sullivan - 2000 - wpi.edu
 ... nications that provides subsecond failover times for network **interface** cards, routers ...
Virtual router systems also have several disadvantages. ... **Physical Router** ...
[Related Articles](#) - [View as HTML](#) - [Web Search](#)

Evolution of Multiprotocol Label Switching

N Feldman, TJ IBM - IEEE Communications Magazine, 1998 - comsoc.org
 ... support for a "**virtual router**." A **virtual router** can be ... ingress **interface** module to an egress **interface** mod- ule ... to the number of links (**physical** or virtual ...
[Related Articles](#) - [View as HTML](#) - [Web Search](#)

SECURE HIERARCHICAL MULTICAST ROUTING AND MULTICAST INTERNET ANONYMITY - group of 8 »

C Shields - 1998 - soe.ucsc.edu
 ... 21 2.4 Exterior OCBT **Virtual Router** Operation to reach subnets in other domains each member sends packets to the **interface** of the higher level of ...
[Cited by 5](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Array processor with asynchronous availability of a next SIMD instruction - group of 2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,870,619, 1999 - Google Patents

... CONFIGURATION REGISTER & TIMING CONTROL EXTERNAL MEMORY INTERFACE N- US Patent Feb. ...

260 - APPUCATION PROCESSOR INTERFACE 270 - ARRAY CONTROLLER & SYNCHRONIZER ...

Cited by 9 - [Related Articles](#) - [Web Search](#)

ATM Satellite Testbed for the Dissemination

T Heico Salfeld - 1999 - industry.esa.int

... and Control NHRP Next Hop Resolution Protocol NIC Network **Interface** Card OBR ... Data

Segment PDU Protocol Data Unit PF Processing Facility PHY **Physical** Layer PPD ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

[book] Transputers'92: Advanced Research and Industrial Applications

M Becker, L Litzler, M Tréhel - 1992 - books.google.com

... Qin 172 Performance evaluation of VCRI .8c: a **virtual router** for transputer networks, JP Kitajima. B. Plateau 179 OCCAM prototyping ...

[Related Articles](#) - [Web Search](#)

Survivability Architectures for Service Independent Access Points to Multiwavelength Optical Wide ... - group of 10 »

A Nagarajan - 1995 - ittc.ku.edu

... multiple services. Multi- ple **physical** layer interfaces, like SONET, Fiber Channel, a clock/data **interface** etc. may be provided. On ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Design and Implementation of Fisheye Routing Protocol for Mobile Ad Hoc Networks - group of 4 »

AC Sun - 2000 - piglet.uccs.edu

... infrastructure. Each of the nodes has a wireless **interface** and communicates with others ... that nodes change their **physical** location by moving around. ...

Cited by 2 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

[book] Fault Tolerant Computing - group of 2 »

W Zhou - 1997 - cm.deakin.edu.au

... mechanism that maintains an observable behaviour at its **interface** with its ... hardware, permanent failure reects an irre- versible **physical** change), intermittent ...

[View as HTML](#) - [Web Search](#)

[ps] UNDERSTANDING THE PERFORMANCE OF LARGE APPLICATIONS FROM A COMPUTER SYSTEMS PERSPECTIVE - group of 2 »

B Armstrong - 1998 - shay.ecn.purdue.edu

... braries, such as those found in the libraries for MPI (Message-Passing **Interface**) and PVM (Parallel Virtual Machine). The sends and receives used are blocking. ...

[View as HTML](#) - [Web Search](#)

[book] Active Networks: Second International Working Conference, IWAN 2000, Tokyo, Japan, October 16-18, ...

H Yasuda - 2000 - books.google.com

... Service and Active Networking on **Virtual Router** Topologies use the open router

interface (implemented as ... resources of the underlying **physical** network devices ...

[Related Articles](#) - [Web Search](#) - [Library Search](#)

N-dimensional modified hypercube - group of 2 »

TN Barker, CA Collins, MC Dapp, JW Dieffenderfer, ... - US Patent 5,794,059, 1998 - Google Patents

... X 1 - 1 V, X o V. Page 6. CONFIGURATION REGISTER & TIMING CONTROL EXTERNAL MEMORY

INTERFACE LINKS ADDRESS REGISTERS FIG.1B Prior Art US Patent Aug. ...

Cited by 21 - [Related Articles](#) - [Web Search](#)

Towards Requirements for IP Routers

P Almquist, F Kastenholz - Network working group, RFC1716, November, 1994 - andrew2.andrew.cmu.edu

... The two halves of the **virtual router** must coordinate their activities in such a way that they act exactly ... (3) The identity of the **physical interface** from which ...

Cited by 10 - [Related Articles](#) - [Cached](#) - [Web Search](#)

Advanced parallel processor including advanced support hardware - group of 3 »

MC Dapp, TN Barker, JW Dieffenderfer, BJ Knowles, ... - US Patent 5,588,152, 1996 - Google Patents

... 250 ^; ARRAY N · j , ° ~ ~ ARRAY DIRECTOR ~ I ARRAY 0 2 M I « TM n 260-^ APPLICATION

PROCESSOR INTERFACE PL 1 | 1 > 240 -^ ... **EXTERNAL MEMORY INTERFACE LINKS** ...

Cited by 33 - [Related Articles](#) - [Web Search](#)

SIMD/MIMD inter-processor communication - group of 2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,708,836, 1998 - Google Patents

... L T «(K) FAST I/O (ZIPPMER) ««- APPLICATION PROCESSOR INTERFACE L 660 ^, L MCA ...

CONFIGURATION REGISTER & TIMING CONTROL EXTERNAL MEMORY INTERFACE V Nr LINKS ...

Cited by 17 - [Related Articles](#) - [Web Search](#)

Parallel processing system having asynchronous SIMD processing - group of 2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,754,871, 1998 - Google Patents

... EXTERNAL MEMORY INTERFACE D 1N BU ... DEBUGGER PERFORMANCE MONITOR & ANALYSIS DIAGNOSTICS

SIMULATOR ASSEMBLER/LINKER & LOADER TEST & INTERFACE MONITOR ARRAY CTRLR ...

Cited by 8 - [Related Articles](#) - [Web Search](#)

Parallel processing system having a synchronous SIMD processing with processing elements emulating ... - group of 3 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,765,011, 1998 - Google Patents

... CONFIGURATION REGISTER & TIMING CONTROL EXTERNAL MEMORY INTERFACE S- r LINKS ... 270-^

APPLICATION PROCESSOR INTERFACE 240-^ ARRAY CONTROLLER & SYNCHRONIZER 1_J ...

[Cited by 14](#) - [Related Articles](#) - [Web Search](#)

Autonomous SIMD/MIMD processor memory elements - group of 2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,717,944, 1998 - Google Patents

... Page 5. CONFIGURATION REGISTER & TIMING CONTROL EXTERNAL MEMORY
INTERFACE D 1N BU ...

260->. 270 -v APPLICATION PROCESSOR **INTERFACE i '4. 240 -x TEST/DEBUG
DEVICE ...**

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

Parallel processing system having asynchronous SIMD processing and data
parallel coding - group of 2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,761,523, 1998 - Google Patents

... Page 5. CONFIGURATION REGISTER & TIMING CONTROL EXTERNAL MEMORY
INTERFACE LINKS

ADDRESS REGISTERS ... 250 260 - ARRAY DIRECTOR APPLICATION PROCESSOR
INTERFACE 270 - ...

[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

Slide bus communication functions for SIMD/MIMD array processor - group of
2 »

PA Wilkinson, JW Dieffenderfer, PM Kogge, NJ ... - US Patent 5,713,037, 1998 - Google Patents

... Page 5. CONFIGURATION REGISTER & TIMING CONTROL EXTERNAL MEMORY
INTERFACE FIG.1B

DOUT D 1 ... ARRAY DIRECTOR APPLICATION PROCESSOR **INTERFACE 240**
TEST/DEBUG DEVICE ...

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physical interface "virtual router"

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5/8/1 (Item 1 from file: 647)

01222764 **CMP Accession Number:** EET20000918S0028

IronBridge router uses centralized switch fabric

Publication Date: 000918

Word Count: 910

Company Names (Dialog Generated): Alcatel ; Avici Systems Inc ; ASICs ; Cisco ; CoSine Communications ; Differentiated Services ; Energis ; Internet Engineering Task Force ; IronBridge Networks Inc ; Lucent Technologies Inc ; LSI Logic Corp ; Nexabit Networks ; Optical Interoperability Forum ; Packet Engines Inc ; Packet Over Cheap Optics ; Pluris Inc ; Qwest Communications International Inc ; Stratus Computer ; Virtual Private Networks ; Xilinx Inc ; Xylan Corp

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5/8/2 (Item 2 from file: 647)

01220788 **CMP Accession Number:** NWC20000807S0017

Web Content Switching - Although not a panacea for all Web site problems, Web content switching can help you more efficiently use your site resources to get the best performance

Publication Date: 000807

Word Count: 2561

Company Names (Dialog Generated): Alteon ; Intel Corp ; RadView Software ; University of Wisconsin Madison Real World Labs ; Web ; Wisconsin Madison Real World Labs

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01211019 **CMP Accession Number:** NWC20000306S0022

Putting Gigabit Ethernet To the Test - Have you got the backbone to switch to gigabit? Straighten up. Our tests show that the latest products are ready for 24x7 mission-critical backbone networks.

Publication Date: 000306

Word Count: 3475

Company Names (Dialog Generated): Agilent Technologies ; Alcatel ; Cabletron Systems ; Cisco Systems ; Differentiated Services ; Extreme Networks Foundry Networks ; Foundry Networks ; Hewlett Packard ; Lucent Technologies ; Media Access Control ; Netcom Systems ; Nortel Networks ; QoSNetics Corp

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5/8/4 (Item 4 from file: 647)

01122947 **CMP Accession Number:** EET19970414S0089

Design planning takes a multilevel tack

Publication Date: 970414

Word Count: 1382

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5/8/5 (Item 5 from file: 647)

01097509 **CMP Accession Number:** NWC19960715S0036

Taking A Trip Down The ATM LANE
(Infrastructure)

Publication Date: 960715

Word Count: 2133

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5/8/6 (Item 1 from file: 674)

088668

Virtual routers open up new services

Publication Date: November 06, 2000

Word Count: 599 **Line Count:** 61

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5/8/7 (Item 2 from file: 674)

087496

Ironbridge takes wraps off terabit router

Publication Date: September 20, 2000

Word Count: 334 **Line Count:** 33

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5/8/8 (Item 3 from file: 674)

087412

LAN switches: living in an heterogeneous World

Round 2 of the Tolly Group/Network World

Publication Date: September 25, 2000

Word Count: 2664 **Line Count:** 258

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5/8/9 (Item 4 from file: 674)

086091

Sizing up the Gigabit Ethernet switch players

Hewlett-Packard and Foundry earn the top grades in our testing.

Publication Date: July 31, 2000

Word Count: 2722 **Line Count:** 253

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5/8/10 (Item 5 from file: 674)

077275

Reliability checklist

A guide to the architectural, configuration and environmental factors that promote reliability and availability in a core LAN switch.

Publication Date: August 30, 1999

Word Count: 1933 **Line Count:** 173

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5/8/11 (Item 6 from file: 674)

070964

Bringing redundancy to Layer 3 switching

Publication Date: December 14, 1998

Word Count: 664 **Line Count:** 63

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5/8/12 (Item 7 from file: 674)

047033

Checking the routing structure of the switching blueprints

Feature

BaySIS, CiscoFusion and other grand switching plans lay a course for ATM, but their routing schemes set them apart.

Publication Date: September 25, 1995

Word Count: 2930 **Line Count:** 268

Section Heading: Feature Articles

Caption: Photo, David Passmore, Photo, Brian Brown, Photo, Larry Lang, Photo, Bill Hawe, Photo, John Morency

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5/8/13 (Item 8 from file: 674)

046443

Which route for routers?

Buyer's Guide

As vendors relocate the function of routers, look for those devices to take on many new faces.

Publication Date: August 28, 1995

Word Count: 2273 **Line Count:** 216

Section Heading: Feature Articles

Caption: Chart, Routers, Kathy Scott

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6. ☐ 5/9/6 (Item 1 from file: 674)
088668

Virtual routers open up new services

Byline: CARL BLUME

Journal: Network World **Page Number:** 48

Publication Date: November 06, 2000

Word Count: 599 **Line Count:** 61

Text:

New developments in equipment used to build backbone IP networks, especially the emergence of virtual backbone routing, are setting the stage for a complete shift in the distribution of Internet services. Virtual routers will enable new Internet services that are isolated from other network users and provide control over network performance, Internet address and routing administration, management and security. Virtual backbone routers logically subdivide a physical router into multiple virtual routers. Each virtual router runs a separate instance of the routing protocols and has dedicated I/O ports, buffer memory, address space, route table and network management software. A service based on virtual backbone routers gives the client the control and security of running a private backbone network, without the capital expense. The software that controls and manages the virtual routing capability is modular; multiple instances of the software (for multiple virtual routers) are executed on a true multiprocess operating system, such as Unix. Each virtual router's processes are isolated and protected from others using the process and memory protection capabilities inherent in the operating system. This ensures a high level of data security and eliminates the possibility of a faulty software module corrupting the data on another virtual router. The packet-forwarding functions of many carrier-class routers are implemented in hardware to achieve wire-speed performance when connected to high-speed SONET/Synchronous Digital Hierarchy interfaces. In a system with virtual routing capability, these hardware functions can be logically subdivided and flexibly assigned to a particular virtual router. The physical I/O ports or label switched paths on which packets are received or transmitted are put under the control of the software modules that comprise a virtual router. Packet buffer memory and forwarding tables are subject to per-virtual-router resource limits to ensure that no virtual router can impact the operation of another. Virtual routing technology lets each virtual router execute separate instances of the routing protocol software (for example, Open Shortest Path First, Border Gateway Protocol, Intermediate System to Intermediate System) and network management software (for example, SNMP or command line interface). Thus, each virtual router can be independently monitored and managed by the user. The separate protocol instances give each virtual router a completely separate IP address domain that can be independently configured without the risk of conflict. The management functions let each virtual router be configured and managed as a separate and independent entity. A user-based security model also ensures that all network management functions and information

that pertains to a particular virtual router are accessible only to those given access privileges. Each virtual router's packet forwarding path is isolated from the other, enabling administrators to engineer the performance of each virtual router separately and independently. Large traffic bursts flowing across one virtual router in the system will not affect others. This ensures that end users of this service receive consistent network performance. Virtual routers also offer independent policing and Internet Engineering Task Force Differentiated Services capabilities, letting the virtual router deliver completely customized services to end users. The I/O ports assigned to each virtual router can be programmed to count arriving packets and ensure they do not exceed a prespecified contract. Packets are then sorted into multiple queues according to their service class. As virtual routing capability becomes more pervasive in the backbone network, its ability to dynamically provision exact end-user bandwidth needs, while offering maximum end-user control and management of that bandwidth, will spawn a host of competitively priced, highly customized IP services. These services will dramatically reshape the way providers and customers perceive the world of purchased bandwidth. Blume is director of product marketing at IronBridge Networks. He can be reached at cblume@ironbridge-networks.com.

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